

Adabas Vista

Adabas Vista Installation

Version 8.1.2

June 2008

This document applies to Adabas Vista Version 8.1.2 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Adabas Vista Installation

This document describes how to install Adabas Vista.

The Adabas Vista installation jobs can either be taken from the job library on the Adabas Vista installation tape and manually customized, or can be generated using the Software AG System Maintenance Aid (SMA).

In either case, the relevant job numbers (prefixed by the Adabas Vista product code AVI) are the same and are referenced at the appropriate step of the installation procedure.

For information about using SMA, refer to the *System Maintenance Aid* documentation.

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- **Adabas Compatibility**
- **Before You Install**
- **Installation Procedures**
- **Verifying the Installation**

2 Installation Prerequisites

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Operating Systems

Adabas Vista Version 8.1.2 is compatible with the following operating system environments:

- z/OS
- z/VSE
- BS2000

For more information about supported operating systems, refer to the *Adabas Installation* documentation.

Software Prerequisites

This section describes the software prerequisites for Adabas Vista Version 8.1.2.

Adabas

Adabas Vista Version 8.1.2 can be used with any supported level of Adabas Version 7.4 or above, or any supported level of Adabas Cluster Services Version 7.4 or above, or any supported level of Adabas Parallel Services Version 7.4 or above. Refer to the Adabas documentation for more information.

Adabas System Coordinator

Adabas Vista Version 8.1 requires that you first install the Adabas System Coordinator Version 8.1. Refer to the Adabas System Coordinator documentation for more information.

Natural

Natural is required by the Online Services application SYSAVI.

Any supported level of Natural Version 4.1 or above can be used. Refer to the Natural documentation for more information.

3 Adabas Compatibility

Some Adabas parameters may need to be tuned for use with Adabas Vista. See section Using Adabas Parameters for more information.

Adabas Vista does not support the following features of Adabas:

- partitioned or translation file access using triggers and stored procedures
- single-user mode
- TCP/IP interface

Adabas Vista does not support multiple Adabas SVCs under Com-plete.

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Before You Install

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This section describes actions which must be taken prior to performing Adabas Vista installation.

Adabas System Coordinator and TP Library Names

Before you start to install Adabas Vista, you must:

- have already installed the Adabas System Coordinator. Adabas Vista uses the configuration file which is maintained by the Adabas System Coordinator.
- identify the TP system library names.

Configuration File Conversion

The layout for translation rules and partition definitions has changed for Adabas Vista Version 8.1. These changes are described in the *Adabas Vista 8.1 Release Notes*, section New Features.

Adabas Vista Online Services (SYSAVI) will detect automatically if a configuration file has not already been converted and will prompt you to run the conversion.

Configuration File Availability

Adabas Vista will only operate correctly if a configuration file is continuously available. Operational procedures are necessary to ensure that an appropriate configuration file is available:

- before any application opens to clients; and
- before any TP initialization processing that involves pseudo- or real database communication.

The configuration file must remain available throughout the duration of all Vista-enabled jobs.

When a Vista-enabled job initializes, Adabas Vista will establish base level runtime controls for use by all clients within that job. These base level runtime controls are defined using Adabas Vista Online Services. If no base level runtime controls are defined for the current job, or the configuration file is not available at initialization time, default runtime controls will be used.

If the configuration file becomes temporarily unavailable, client sessions will continue. However, without the configuration file Adabas Vista will not be able to determine the existence of translation and partitioning rules for a particular source database and file number. In these circumstances all database communication will be routed unchanged to the source database and file number provided by the application. Because the results of these accesses may be unpredictable, it is recommended that you use virtual source database numbers for files that are to be defined as partitioned or translation files.

- System Initialization
- Client Initialization

System Initialization

The base level runtime controls needed for the current job become effective when clients initialize. These runtime controls are defined using Adabas Vista Online Services.

If no runtime controls are defined for the current job - or the configuration file is not available - default runtime controls will be used.

Client Initialization

The presence of translation rules or partitioned files is determined when the user initializes.

If the configuration file is temporarily unavailable, the session is allowed to continue processing to minimize the impact, although Adabas Vista's partitioning and translation capabilities cannot be used until the configuration file becomes available and the user subsequently logs off and back on again.

A console message with the prefix AVI-0013 is displayed once when the configuration file becomes unavailable and again when it becomes available.

All database communication by a session that has been allowed to continue without the availability of the configuration file is routed unchanged to the source database and file number provided by the application. Because the results of these accesses may be unpredictable, it is recommended that you use virtual source database IDs for files that are to be defined as partitioned or translation files.

Use of Unmodified ADALNK

As in previous releases, there is a requirement to use an unmodified ADALNK in certain areas. With Version 8.1 this has been reduced to unmodified ADALNK being needed to run standalone Adabas utility jobs only.

Installation Under CICS

If you are installing under CICS, the Adabas Vista modules can be loaded either from the DFHRPL or the STEPLIB libraries. Software AG recommends that you use DFHRPL. If you are not using the CICS program autoinstall feature, you will need to define the Adabas Vista client modules (AVIKRN, AVIPXY) and the configuration module (CORCFG) to CICS. All of the modules should be defined with the following characteristics: Language: Assembler ; REload :No ; DAtalocation: Any ; EXECKey : User.

Please also refer to the *Adabas System Coordinator Installation* documentation for similar CICS requirements for that software component.

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Installation Procedure

This section describes the procedure for Adabas Vista installation:

- **z/OS Installation**
- **z/VSE Installation**
- **BS2000 Installation**

6 z/OS Installation

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The Installation Tape

Review the *Report of Tape Creation* that accompanies the release package before restoring the release data to disk. Information in this report supersedes the information in this documentation.

The installation tape contains the following datasets in the sequence indicated in the report:

Dataset	Contents
AVIvrs.LOAD	AVI load modules
AVIvrs.SRCE	AVI source modules
AVIvrs.INPL	SYSAPI objects
AVIvrs.ERRN	SYSAPI error messages

where *vrs* in dataset names represents the version, revision, and system maintenance level of the product.

Installation Checklist

The configuration file, configuration module, and client component of the Adabas System Coordinator must already be installed as indicated in the following checklist before any attempt is made to install Adabas Vista:

Step	Description
1	Load the Adabas System Coordinator configuration file
2	Build the Adabas System Coordinator configuration module CORCFG
3	Build the modified Adabas link module by including the Adabas System Coordinator client component

The installation of these components is described in detail in the *Adabas System Coordinator* documentation.

Once the required Adabas System Coordinator components have been installed, you can proceed to install Adabas Vista. The following checklist identifies the steps necessary to successfully complete the installation:

Step	Description
1	Restore the Adabas Vista libraries and other items from the installation tape
2	Prepare SYSAVI
3	Enable the client process
4	Enable the database process
5	Enable the Adabas System Coordinator daemon process

Installation Procedure

Following is the general Adabas Vista installation procedure. The actual installation depends on your particular requirements and the specific contents of the release package provided by Software AG for your site. Information in the release package is intended for your system. If that information differs from the information in this section, use the release package information or contact Software AG technical support for assistance.

Step1: Copying the Tape Contents to Disk

If you are using System Maintenance Aid (SMA), refer to the SMA documentation (included on the current edition of the Natural documentation CD). If you are not using SMA, perform steps 1a, 1b and 1c as described in this section:

- [Step 1a: Copy Data Set COPY.JOB from Tape to Disk](#)
- [Step 1b: Modify COPY.JOB](#)
- [Step 1c: Submit COPY.JOB](#)



Note: If the datasets for more than one product are delivered on the tape, the dataset COPY.JOB contains the JCL to unload the datasets for all delivered products from the tape to your disk. After that, you will have to perform the individual install procedure for each component.

Step 1a: Copy Data Set COPY.JOB from Tape to Disk

The data set COPY.JOB (label 2) contains the JCL to unload all other existing data sets from tape to disk. To unload COPY.JOB, use the following sample JCL:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* -----
//COPY EXEC PGM=IEBGENER
//SYSUT1 DD DSN=COPY.JOB,
// DISP=(OLD,PASS),
// UNIT=(CASS,,DEFER),
// VOL=(,RETAIN,SER=<Tnnnnn>),
// LABEL=(2,SL)
//SYSUT2 DD DSN=<hilev>.COPY.JOB,
// DISP=(NEW,CATLG,DELETE),
// UNIT=3390,VOL=SER=<vvvvvv>,
// SPACE=(TRK,(1,1),RLSE),
// DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//
```

where:

```
<hilev> is a valid high level qualifier
<Tnnnnn> is the tape number
<vvvvvv> is the desired volser
```

Step 1b: Modify COPY.JOB

Modify the COPY.JOB to conform with your local naming conventions and set the disk space parameters before submitting this job:

- set HILEV to a valid high level qualifier
- set LOCATION to a storage location
- set EXPDT to a valid expiration date

Step 1c: Submit COPY.JOB

Submit COPY.JOB to unload all other data sets from the tape to your disk.

Step 2. Prepare SYSAVI

The SYSAVI objects needed to create the Adabas Vista Online Services demo version are delivered as part of the System Coordinator for Adabas Options installation tape.

Additional SYSAVI objects delivered on the Adabas Vista distribution tape enable full functionality.

1. INPL the objects provided on the Adabas Vista installation tape.



Note: If you install the Adabas-supplied INPL again after installing the INPL supplied on the Adabas Vista installation tape, you must re-apply the Adabas Vista INPL and any subsequent Adabas Vista INPL updates.

2. If Natural Security is installed, define the libraries SYSAVI and SYSMV vrs (where vrs is the version you are installing, for example 812) and protect as required. You may define MENU as the startup transaction for SYSAVI. DO NOT define a startup transaction for SYSMV vrs .
3. Use the following parameter to define the Natural session where SYSAVI is to be used:

```
LFIL= (152,dbid,fnr<,passw><,ciph>)
```

where $dbid$ and fnr define the location of the System Coordinator configuration file.

Alternatively, assemble the Natural parameter module with

```
NTFILE, ID=152, DBID=dbid, FNR=fnr
```

Step 3. Enable the client process

► To enable the Adabas Vista client process

- 1 for the Adabas System Coordinator:
 - make the modified Adabas link module available (COMPLIB for Com-plete, DFHRPL for CICS, STEPLIB for all other client systems);
 - make the generated configuration module CORCFG available (COMPLIB for Com-plete, STEPLIB for all other client systems); and
 - make the Adabas System Coordinator load library available (COMPLIB for Com-plete, STEPLIB for all other client systems).
- 2 for Adabas Vista:

- make the Adabas Vista load library available (COMPLIB for Complete, STEPLIB for all other client systems).

Step 4. Enable the database process

▶ To enable the Adabas Vista database process

- 1 for the Adabas System Coordinator:
 - make the Adabas System Coordinator load library available (STEPLIB).
- 2 for Adabas Vista:
 - set the Adabas parameter `ADARUN VISTA=YES`.

Step 5. Enable the Adabas System Coordinator daemon process



Note: This step is required only if you intend to run clustered applications with dynamic transaction routing across multiple operating system images in an IBM sysplex environment.

▶ To enable the Adabas Vista System Coordinator daemon process

- 1 Add the control statement `PRODUCT=AVI` to the DDCARD input of the startup procedures for the Adabas System Coordinator daemon.
- 2 Make the Adabas Vista load library available to the Adabas System Coordinator daemon (STEPLIB).

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z/VSE Installation

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The Installation Tape

Review the *Report of Tape Creation* that accompanies the release package before restoring the release data to disk. Information in the report supersedes the information in this documentation.

The installation tape contains the following datasets in the sequence indicated in the report:

Dataset	Contents
AVIvrs.LIBR	AVI load modules
AVIvrs.INPL	SYSAPI objects
AVIvrs.ERR	SYSAPI error messages

where *vrs* in dataset names represents the version, revision, and system maintenance level of the product.

Installation Checklist

The configuration file, configuration module, and client component of the Adabas System Coordinator must already be installed as indicated in the following checklist before any attempt is made to install Adabas Vista:

Step	Description
1	Load the Adabas System Coordinator configuration file
2	Build the Adabas System Coordinator configuration module CORCFG
3	Build the modified Adabas link module by including the Adabas System Coordinator client component

The installation of these components is described in detail in the *Adabas System Coordinator* documentation.

Once the required components have been installed, you can proceed to install Adabas Vista. The following checklist identifies the steps necessary to successfully complete the installation:

Step	Description
1	Restore the Adabas Vista libraries and other items from the installation tape
2	Prepare SYSAVI
3	Enable the client process
4	Enable the database process
5	Enable the System Coordinator daemon process

Installation Procedure

Following is the general Adabas Vista installation procedure. The actual installation depends on your particular requirements and the specific contents of the release package provided by Software AG for your site. Information in the release package is intended for your system. If that information differs from the information in this section, use the release package information or contact Software AG technical support for assistance.

Step 1. Restore the Adabas Vista libraries

Use the following sample JCS to restore the Adabas Vista library. Modify the following variables to reflect the standards at your site:

Variable	Is the...
<i>cuu</i>	tape unit number
<i>vrs</i>	version, revision, and system maintenance level
<i>tttttt</i>	volume serial number of the installation tape
<i>xx</i>	file spacing information; see the <i>Report of Tape Creation</i>

```

* $$ JOB JNM=LIBREST,CLASS=O,DISP=D
* $$ LST CLASS=A,DISP=H
// JOB LIBREST
// ASSGN SYS006,cuu,VOL=tttttt
// ASSGN SYS005,IGN
// MTC REW,SYS006
// MTC FSF,SYS006,xx
// EXEC LIBR
  RESTORE S=SAGLIB.AVIvrs:SAGLIB.AVIvrs
    TAPE=SYS006 TL=tttttt LIST=Y
/*
// MTC REW,SYS006
/&
* $$ EOJ

```

Step 2. Prepare SYSAVI

The SYSAVI objects needed to create the Adabas Vista Online Services demo version are delivered as part of the System Coordinator for Adabas Options installation tape.

Additional SYSAVI objects delivered on the Adabas Vista distribution tape enable full functionality.

1. INPL the objects provided on the Adabas Vista installation tape.



Note: If you install the Adabas-supplied INPL again after installing the INPL supplied on the Adabas Vista installation tape, you must re-apply the Adabas Vista INPL and any subsequent Adabas Vista INPL updates.

2. If Natural Security is installed, define the libraries SYSAVI and SYSMV vrs (where vrs is the version you are installing, for example 812) and protect as required. You may define MENU as the startup transaction for SYSAVI. DO NOT define a startup transaction for SYSMV vrs .
3. Use the following parameter to define the Natural session where SYSAVI is to be used:

```
LFILE=(152,dbid,fnr<,passw><,ciph>)
```

where $dbid$ and fnr define the location of the Adabas System Coordinator configuration file.

Alternatively, assemble the Natural parameter module with

```
NTFILE, ID=152, DBID=dbid, FNR=fnr
```

Step 3. Enable the client process

► To enable the Adabas Vista client process

- 1 for the Adabas System Coordinator:
 - make the modified Adabas link module available;
 - make the generated configuration module CORCFG available; and
 - make the Adabas System Coordinator load library available.
- 2 for Adabas Vista:
 - make the Adabas Vista load library available.

Step 4. Enable the database process

▶ To enable the Adabas Vista database process

- 1 for the Adabas System Coordinator:
 - make the Adabas System Coordinator load library available.
- 2 for Adabas Vista:
 - set the Adabas parameter `ADARUN VISTA=YES`.

Step 5. Enable the System Coordinator daemon process



Note: This step is required only if you intend to run clustered applications with dynamic transaction routing across multiple operating system images in an IBM sysplex environment.

▶ To enable the Adabas Vista System Coordinator daemon process

- 1 Add the control statement `PRODUCT=AVI` to the input of the startup procedures for the Adabas System Coordinator daemon.
- 2 Make the Adabas Vista load library available to the Adabas System Coordinator daemon.

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BS2000 Installation

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The Installation Tape

Review the *Report of Tape Creation* that accompanies the release package before restoring the release data to disk. Information in the report supersedes the information in this documentation.

The installation tape contains the following datasets in the sequence indicated in the report:

Dataset	Contents
AVI vrs .SRC	AVI source modules
AVI vrs .MOD	AVI load modules
AVI vrs .INPL	SYSAPI objects
AVI vrs .ERRN	SYSAPI error messages

where vrs in dataset names represents the version, revision, and system maintenance level of the product.

Installation Checklist

The Adabas System Coordinator must be installed prior to the installation of Adabas Vista. See the Adabas System Coordinator documentation for detailed information.

Once the required System Coordinator components have been installed, you can proceed to install Adabas Vista.

After copying the tape contents to disk, the following checklist identifies the steps necessary to complete the installation:

Step	Description
1	Prepare SYSAPI
2	Enable the client process
3	Enable the database process

Copying the Tape Contents to a BS2000/OSD Disk

► to copy the tape contents to a BS2000/OSD disk:

- 1 Copy the library SRVnnn.LIB from tape to disk.

This action is not necessary if you have already copied the library SRVnnn.LIB from another Software AG tape. For more information, refer to the element #READ-ME in this library.

The library SRVnnn.LIB is stored on the tape as the sequential file SRVnnn.LIBS containing LMS commands. The current version nnn can be obtained from the Report of Tape Creation. To convert this sequential file into a LMS library, execute the following commands:

```
/IMPORT-FILE SUPPORT=*TAPE(FILE-NAME=SRVnnn.LIBS, -
/ VOLUME=<volser>, DEV-TYPE=<tape-device>)
/ADD-FILE-LINK LINK-NAME=EDTSAM, FILE-NAME=SRVnnn.LIBS, -
/ SUPPORT=*TAPE(FILE-SEQ=3), ACC-METH=*BY-CAT, -
/ BUF-LEN=*BY-CAT, REC-FORM=*BY-CAT, REC-SIZE=*BY-CAT
/START-EDT
@READ '/'
@SYSTEM 'REMOVE-FILE-LINK EDTSAM'
@SYSTEM 'EXPORT-FILE FILE-NAME=SRVnnn.LIBS'
@WRITE 'SRVnnn.LIBS'
@HALT
/ASS-SYSDTA SRVnnn.LIBS
/MOD-JOB-SW ON=1
/START-PROG $LMS
/MOD-JOB-SW OFF=1
/ASS-SYSDTA *PRIMARY
<tape-device> = device-type of the tape, e.g. TAPE-C4
<volser> = VOLSER of tape (see Report of Tape Creation)
```

- 2 Copy the procedure COPY.PROC from tape to disk.

Call the procedure P.COPYTAPE in the library SRVnnn.LIB to copy the procedure COPY.PROC to disk:

```
/CALL-PROCEDURE (SRVnnn.LIB,P.COPYTAPE), -  
/ (VSNT=<volser>, DEVT=<tape-device>)
```

If you use a TAPE-C4 device, you can omit the parameter `DEVT`.

- 3 Copy all product files from tape to disk.

Enter the procedure `COPY.PROC` to copy all Software AG product files from tape to disk:

```
/ENTER-PROCEDURE COPY.PROC, DEVT=<tape-device>
```

If you use a TAPE-C4 device, you can omit the parameter `DEVT`. The result of this procedure is written to the file `L.REPORT.SRV`.

Installation Procedure

Following is the general Adabas Vista installation procedure. The actual installation depends on your particular requirements and the specific contents of the release package provided by Software AG for your site. Information in the release package is intended for your system. If that information differs from the information in this section, use the release package information or contact Software AG technical support for assistance.

Step 1. Prepare SYSAVI

The SYSAVI objects needed to create the Adabas Vista Online Services demo version are delivered as part of the System Coordinator for Adabas Options installation tape.

Additional SYSAVI objects delivered on the Adabas Vista installation tape enable full functionality.

1. INPL the objects provided on the Adabas Vista installation tape.



Note: If you install the Adabas-supplied INPL again after installing the INPL supplied on the Adabas Vista installation tape, you must re-apply the Adabas Vista INPL and any subsequent Adabas Vista INPL updates.

2. If Natural Security is installed, define the libraries SYSAVI and SYSMV_{vers} (where *vers* is the version you are installing, for example 812) and protect as required. You may define MENU as the startup transaction for SYSAVI. DO NOT define a startup transaction for SYSMV_{vers}.
3. Use the following parameter to define the Natural session where SYSAVI is to be used:

```
LFILE=(152,dbid,fnr<,passw><,ciph>)
```

where *dbid* and *fnr* define the location of the Adabas System Coordinator configuration file.

Alternatively, assemble the Natural parameter module with

```
NTFILE, ID=152, DBID=dbid, FNR=fnr
```

Step 2. Enable the client process

▶ To enable the Adabas Vista client process

- 1 for the Adabas System Coordinator:
 - make the modified Adabas link module available (BLSLIBnn);
 - make the generated configuration module CORCFG available (BLSLIBnn); and
 - make the Adabas System Coordinator load library available (BLSLIBnn).
- 2 for Adabas Vista:
 - make the Adabas Vista load library available (BLSLIBnn).

Step 3. Enable the database process

▶ To enable the Adabas Vista database process

- 1 for the Adabas System Coordinator:
 - make the Adabas System Coordinator load library available (BLSLIBnn).
- 2 for Adabas Vista:
 - set the Adabas parameter `ADARUN VISTA=YES`.

9 Verifying the Installation

At the end of the installation process, you can use Adabas Vista Online Services to check for successful initialization. See section Special Services, Local SYSAVI Services, Installation Check option.

